

# THE TECH

VOL. XXIX. NO. 92.

BOSTON, MASS., TUESDAY, FEBRUARY 15, 1910

PRICE ONE CENT

## UNION STILL SHOWS DEFICIT FOR YEAR

### Increased Attendance Fails To Make Up For Vacation Loss

The first two weeks in January were the best in the school year and the accounts showed a most encouraging profit. The next two weeks, however, show a deficit exceeding the profit on the other two. This is easily explained by the fact that the semi-annual examinations were then in progress and many students were not in the city at meal times, thereby greatly reducing the receipts, while the expenses remained constant.

At the end of the term the total loss on the Union was \$362.06. This is a little less than the deficit at the end of October, after the most discouraging period of the year, but the attendance has been more satisfactory since that time, and if it had not been for the vacations at Christmas and mid-year, a much more satisfactory statement would be shown.

So far this term the attendance in the dining room has been as satisfactory as for the first two weeks in January and a net profit of over \$34.00 is shown for the five days that it was open.

Beginning today a report will be made by Mr. Scharff to appear in The Tech on Tuesday of each week. The report for the week ending Feb. 13 follows:

#### Dining Room.

##### Receipts.

Inventory on Feb. 13th	\$457.35
Cash receipts	387.83
Gum machines	4.10
Supplies	2.16
Discounts	0.29
Total	\$851.73

#### Dining Room.

##### Expenses.

Inventory on Jan. 29	\$304.77
Supplies	386.50
Regular pay roll	111.92
Student wages	13.82
Total	\$817.01

#### Cigars and Candy.

##### Receipts.

Inventory	\$60.49
Cash	51.25
Discounts	0.18
Total	\$111.92

#### Cigars and Candy

##### Expenses.

Inventory	\$76.95
Cash	13.40
Total	\$90.35

Profit on Cigars and Candies	\$21.97
Profit on Dining Room	34.72
Leaving a total profit of \$56.69 for the week.	

## "WIRELESS" LECTURE

On Wednesday evening, Feb. 23d. Prof. A. E. Kennelly of Harvard University will address the members of the Electrical Eng. Society on the subject of "Wireless Telegraphy and Telephony." The meeting will be held in the upper room of the Union and refreshments will be served.

Pittsfield, Feb. 14.—The Pittsfield Electric Street Railway Company has ceased operating cars on the Country Club and Lake Avenue lines, the sections named in the temporary injunction issued by Chief Justice Marcus P. Knowlton of the Massachusetts Supreme Court.

## FORMER BOWERY CROOK TO ADDRESS T. C. A.

### David J. Ranney Will Tell His Life Story Tomorrow In Union

The Technology Christian Association have been very fortunate in securing as a speaker at their sixth Wednesday evening dinner, David J. Ranney of the Bowery, N. Y. Mr. Ranney is a very remarkable person and has probably spent the most unique life that anybody could live. For fifteen years he was one of the toughest individuals on earth, living in the heart of "Toughville" amongst crooks and the lowest people in New York. For fifteen years he lived on the Bowery. Suddenly a change came in his life, and for the last fifteen years Mr. Ranney has been walking the straight and narrow path.

Mr. Ranney is a fine speaker, and when he starts to tell of his vast experiences and how he reformed, everybody sits up and takes notice. The Boston Journal recently said of him: "Probably there is no man in the country today who, in his whole-souled way, can impress an audience as can David J. Ranney, who, year after year, works day and night among the poor of the New York Bowery. Mr. Ranney has never cultivated the veneer that characterizes so many public speakers, but he gives the truth from the pulpit in a way that would do the heart of any man heaps of good."

(Continued on page 2.)

## EXPERIMENTAL MODEL

### Now Being Constructed For Naval Architectural Society

Under the direction of Prof. Peabody and his assistants in the Naval Architecture Department a navigable forty-foot model of the U. S. S. Manning is rapidly approaching completion. This type of vessel has been chosen for investigation because Prof. Peabody was directly connected with the series of speed trials on board this ship, which were reported to the Society of Naval Architects and Marine Engineers in 1899. The "Scientific American" comments as follows on this work:

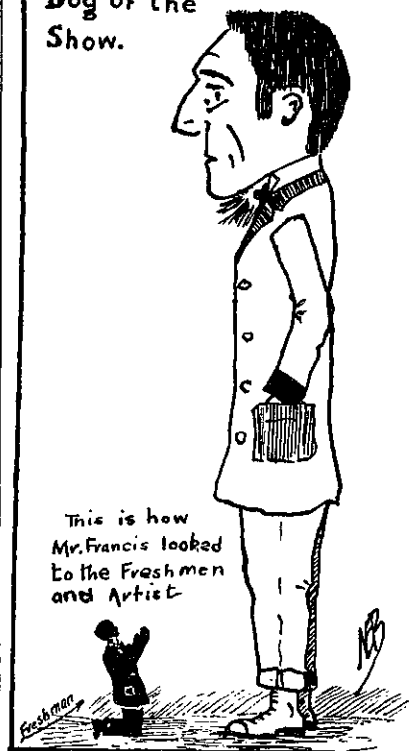
"After the relations between the actual trials of the ship and those of the navigable model have been established, a certain basis of determination will be furnished, by which it will be possible to determine what may be expected of a full-sized ship, before the latter is built. The method which it is proposed using has been tried successfully in Great Britain to some extent, particularly for such types of vessels as the "Mauretania" and "Lusitania."

"The department has been promised the co-operation of the model basin at the Washington navy yard, and preliminary tests are to be made there very soon on a twenty-foot model with a propeller sixteen inches in diameter.

"The problem of propulsion has, according to Prof. Peabody, three distinct parts: first, the resistance of the ship, or the force required to maintain the given speed; second, the power applied to and delivered by the propeller; and third, the effectiveness of the combination of propeller and ship. From necessity and choice the propeller is placed

(Continued on page 3.)

The Watch  
Dog of the  
Show.



This is how  
Mr. Francis looked  
to the Freshmen  
and Artist

## SEVERAL MEN REPORT FOR ASST. PUB. MAN

### Show Manager Issues Call For More Candidates In This Competition

Yesterday noon several 1913 men entered the competition for the last vacant place on the Tech Show management, that of Second Assistant Publicity Manager. More men are needed so as to be sure the best man available gets the position. The work of the department is varied, and the training it gives is very valuable in later life. The main duty of the publicity department is to place the Show before the public by means of advance press work. If you have no talent as an actor, you can at least make a try for a position on the staff of the management. The man who makes assistant this year and whose work is satisfactory throughout the year becomes first Assistant Manager next year, and Manager of the department in his junior year. From this position there is further chance of becoming General Manager the 4th year. General Manager Dudley Clapp started as freshman assistant in the publicity department. The competition lasts only two or three weeks, and it takes only a very small amount of energy for the position. As Professor Jackson said at the last show dinner, "A man who cannot do show work and Institute work at the same time does not belong here at Tech." Publicity Manager Lewis is willing to talk the matter over with anybody who is the least bit interested any morning from 8.40 to 9 o'clock, or from 4 to 4.30 P. M. in the Show office, Room B, Union. All who expect to enter the competition should do so today, so as to start in the race on an equal footing with the rest of the men.

Lightning struck the steamship Devonian last night while she was on her way into this port from Liverpool and splintered her topmast and nearly caused the death of Second Officer Hagstad, who was on the bridge.

## CONVOCATION TODAY FOR BARON KIKUCHI

### As Educator, Prominent Both In Japan And This Country

Baron Kikuchi of the Japanese Imperial University will address a convocation in Huntington Hall at two o'clock today.

As a leader in education, Baron Kikuchi stands out prominently even outside his own land. Following an education at Cambridge University, England, he returned to his native land and entered upon administrative work in education. In that university from which he graduated in 1877, he received a high degree.

In Japan, he has occupied the position of Minister of Education, which is almost equivalent to a cabinet office here. He was formerly chancellor, or president of the University of Tokio, and has recently been made president of the Imperial University of Kioto.

At the invitation of a New York Society, he is speaking throughout the country. In previous speeches, he has dealt with the relationship of Japan and America. In at least one, he has discussed the recent diplomatic controversy concerning the neutralization of the Manchurian railroad, a move which many look upon as a measure for a return of Japan's hard-earned possessions.

Although the subject on which he will speak is not announced, his mission to this country being of a semi-political nature, makes a large field from which to choose.

## GYM MEET WITH SALEM

### First Contest Of Season Will Come Thursday Feb. 24

The Gym Team men are working hard these days for the approaching meets. Every afternoon men in red and gray suits may be seen doing seemingly impossible feats on the different apparatus, with imminent danger of breaking their necks. The first meet is next week—Tech vs. Salem at Salem, on Feb. 24.

Coach Whiting is putting the athletes through some stiff stunts, and the Salem team will certainly have to hustle if they expect to win. There are a number of promising men out, and a good nucleus of last year's men remains. From these a squad of fifteen men will be picked for the team. Allen and Gott on the horizontal bar and Doble on the parallels are probably the stars.

On Feb. 26, two days after the Salem meet, a meet with Amherst will be held at the Gym. Nothing much is known about the Amherst team, but there is sure to be a pretty exhibition of apparatus work, and everyone should turn out to see it.

## CATHOLIC CLUB

There will be a meeting of the Catholic Club on Wednesday, Feb. 16, in the Union at 8:15 P. M. The dance committee will make a preliminary report, and will give an outline of its plans.

Mr. B. S. Rothwell, President of the Chamber of Commerce, will give an interesting talk on the work and purposes of the Chamber of Commerce. Mr. Rothwell is a speaker of renown, and his talk is certain to be interesting.

# THE TECH

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P. M. Tyler 1912 ..... Asso. Editor

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Printed by Puritan Linotype, Boston, Mass.  
BOSTON, MASS., FEBRUARY 15, 1910.

The entertainment committee has made a good showing this year. Let's show our appreciation by buying a ticket for next Friday. Besides it's worth a quarter.

"A lazy man is no worse than a dead one, but he takes up more room." Do something. Come out for at least one activity and work for it. Twenty-four hours is amply sufficient for your Institute work, recreation, and a good night's sleep, leaving a generous margin to be devoted to student affairs. Be useful!

The T. C. A. certainly is attracting more attention than ever before. In former years it has practically dropped out of sight after distributing its "Bibles" in Rogers corridor at the first of the school year; but this year a wide-awake management is forcibly keeping the Association before the eyes of the student body.

## COMMUNICATION

To the Editor of The Tech,—

I would like to suggest that the new railings and signs enclosing the Power Plant in the Lowell Building are preventing many interested fellows from inspecting the machinery in actual service. I for one stopped daily and learned a bit as I passed through the plant. Now I learn nothing but that there is "no passing." Is this an institution for learning or for generating power and making engine tenders comfortable?

From a fellow who wants to see all that's here.

## GENERAL NEWS

### TELEGRAPH NEWS OF THE MORNING.

#### WEATHER REPORT.

Washington, Feb. 15.—Tuesday cloudy with light west to southwest winds.

Boston, Feb. 15.—The search for the tug Nina has failed. It is feared that the boat with all on board has been lost.

Next Saturday the annual hockey game between Harvard and Yale will be played at New York. Harvard must win to land second place.

Eighteen thousand women have signed the petition to prevent the manufacture and sale of alcoholic liquors in this Commonwealth.

Cambridge, Feb. 15.—Candidates for Harvard crew were called out yesterday. The work on the machines will begin at once and will probably continue longer than usual.

Wellesley, Feb. 15.—The congress elected to decide the future of the secret societies has reported that the idea of abolishing the secret societies was not held in favor by any member of the congress. Changes, however, were favored by all.

Washington, Feb. 15.—According to aviation enthusiasts the place for the next international aviation meet will be at the capitol.

Washington, Feb. 15.—Hotel Harris was damaged by fire yesterday to the extent of \$5,000. One hundred guests were thrown into a panic and many were seriously injured.

Washington, D. C., Feb. 15.—The feeling for and against Peary is very strong. Admiral Melville, in favor of Peary, cites two instances in which civilians were honored in this manner. Rear Admiral G. F. F. Wilde, however, takes the other side. When asked his opinion he remarked, "It is absurd, absolutely absurd."

Washington, Feb. 11.—Hotel Harris was damaged by fire yesterday to the extent of \$5,000. One hundred guests were thrown into a panic and many were seriously injured.

London, Feb. 15.—After 37 years' work the task of compiling full marginal references for the revised New Testament has been completed. A new edition will shortly be issued by the University Presses, in which the new references will be substituted for the abridged references of 1898.

Berlin, Feb. 14.—Former Vice-President and Mrs. Fairbanks arrived in Berlin today. Mr. Fairbanks' presence has been made known to Emperor William and it is expected that Mr. Fairbanks will be granted an audience.

Valdivia, Chili, Feb. 15.—Dr. Frederick A. Cook, the explorer, and his wife, it is said, have arrived here on board the German steamer Osiris. Dr. Cook traveled under the name of T. Craig.

San Diego, Cal., Feb. 15.—Seven men were badly burned, two fatally, by the explosion of a boiler tube in the forward fire room of the torpedo boat destroyer Hopkins today.

London, Feb. 15.—Ex-President Roosevelt is now nearing the River Nile. It is expected that he will arrive at Khartoum about March 6.

## FORMER CROOK

(Continued from page 1.)

Practically every large newspaper in this city and in other large cities where Mr. Ranney has spoken has had something to say decidedly in his favor.

Personally, Mr. Ranney is a very strong man; he has a will of his own and a look at his build and face easily establishes that fact. He speaks the Bowery dialect, and as one man puts it he is a "diamond in the rough." Raised from the dirt to be slowly but surely put through all the processes that go to raise a dirty, uncut diamond to the finely polished, brilliant gem that is presented to the public.

Every Tech man is cordially invited to hear this interesting personality give the story of how he was "saved from a life of crookedness and crime," how this "Bowery Tough" became a "Christian Gentleman."

The dinner will commence promptly at 6.00 p. m., in the small dining room of the Union, February 16. The fee for the dinner is 20 pennies, and can be paid by two dimes or four nickels or any way you happen to have, but you will certainly regret it if you do not part with this sum to hear this man. Please register at the Cage so that the number coming may be ascertained in advance.

After the dinner the first of a series of conferences upon the "Articles of the Christian Faith" will be conducted by Dr. Mann in the Trinity Church Parish House at 7.30. An effort is being made to have similar conferences in other churches following these T. C. A. dinners.

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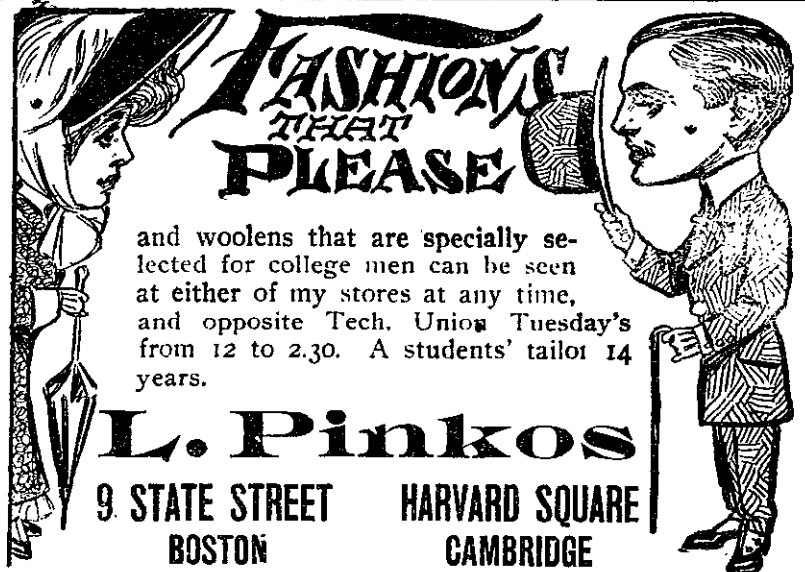
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## EXPERIMENTAL MODEL

(Continued from page 1.)

at the stern of the ship, where it can take advantage of the wake, but where it also disturbs the natural flow of water, and consequently increases the resistance considerably above what the pull on a tow-rope would be. This combined effect is exceedingly complex and obscure, and consequently has given rise to more difficulty than any other problem which has been chosen for investigation by aid of the navigable model.

"The model is building at the yard of Stearns & McKay at Marblehead, and the propulsion of machinery has been already designed. It will consist of a gasoline-electric generating set and a motor geared for experiment work, so that conditions may be controlled over a wide range, and the measurements of power may be simple and accurate. The machinery can also be easily transferred to other hulls as the work progresses.

"Upon the completion of experiments with the model built and engined to correspond with the prototype, various forms and locations of propellers will be experimented upon, including twin and triple-screw propellers, especially of the type used at present with marine turbines. The form of the hull will then be changed so far as may be without rebuilding, and the hulls of various forms of ships will be built to extend the range of the experiments.

"Another important problem to be undertaken will be the steering and maneuvering, including practical work in

rough and stormy seas. As this field has received but little attention in the past, much new and valuable information will be acquired.

"This proposed method of investigation has the considerable advantage that a proposed design may be tried on a small and inexpensive scale simulating all the conditions of actual service, including the performance of the ship under adverse weather conditions. After satisfactory conditions have been attained by use of the model, the dimensions and conditions can be determined for the full-size ship by the theory of mechanical similitude. The fact that this theory leads to the assignment of somewhat higher power to the ship than may be needed gives to designer a margin that may be taken advantage of, but which can be controlled by the preliminary experiments with a full-sized ship for a prototype.

"The equipment will be used during the coming spring and summer by Prof. Peabody and his colleagues for original research. It is confidently expected that results will be obtained which will clear up certain obscure places in the theoretical work and design of the students of the department. The training received by the experimenters in the use of the equipment will thus form a part of the laboratory equipment of the department.

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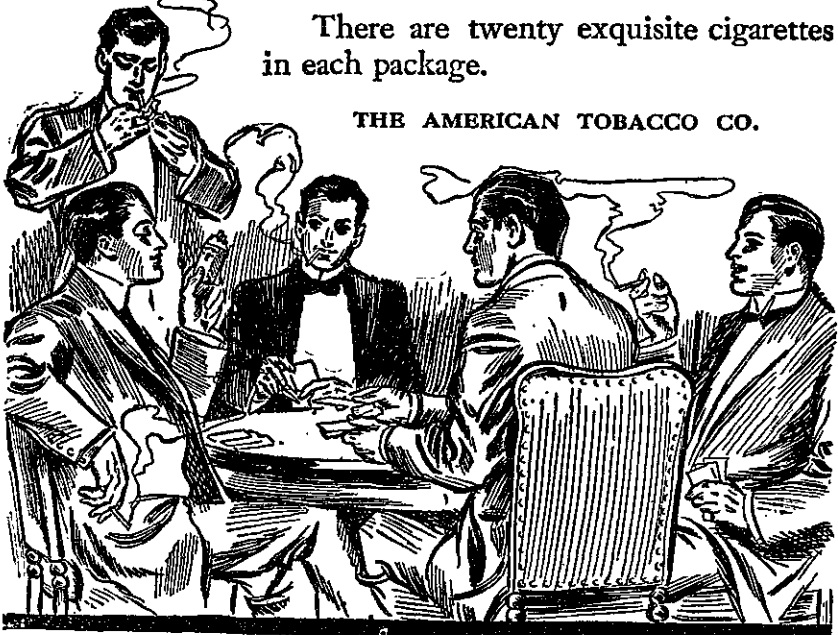


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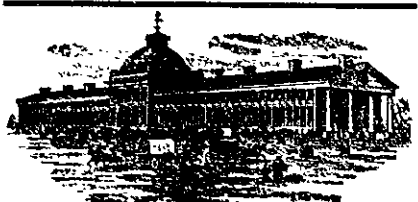
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**FACULTY NOTICES.**

**FIRST YEAR.**

February 11, 1910.

CHANGE OF ROOM ASSIGNMENTS.  
Chemistry Recitation.

Section 5.—Changed on Thursday at  
9 to 29 Lowell.  
Section 13.—Changed on Friday at  
9 to 30 Lowell.

WALTER HUMPHREYS,  
Registrar.

**SECOND YEAR.**

February 11, 1910.

CHANGE OF ROOM ASSIGNMENTS.  
Physics Recitation.

Section I.—Thursday at 9 changed  
to 23 Lowell; Saturday at 10 changed  
to 23 Lowell.  
Section IV.—Monday at 11 changed to  
8 Eng. C.; Thursday at 10 changed to  
8 Eng. C.

Section VI. 3.—Friday at 10 changed  
to 24 Lowell; Tuesday at 2 changed to  
24 Lowell.

Section XI.—Wednesday at 9 changed  
to 22 Lowell; Saturday at 10 changed  
to 22 Lowell.

Section VI. 3.—Monday at 9 changed  
to 24 Walker; Thursday at 9 changed  
to 24 Walker.

**Mechanism.**

Section XIII and III, 2.—Wednesday  
at 11 changed to 22 Eng. A; Friday at  
11 changed to 22 Eng. A.

**Quantitative Analysis.**

Section III.—Saturday at 10 changed  
to 24 Lowell.

WALTER HUMPHREYS,  
Registrar.

**THIRD YEAR.**

February 11, 1910.

CHANGE OF ROOM ASSIGNMENTS.  
Argumentation and Debate.

Tuesday at 9 changed to Room 54  
Eng. A; Thursday at 9 changed to  
Room 54 Eng. A; Saturday at 12  
changed to Room 54 Eng. A.

**Quantitative Analysis.**

Section IV., V., 1, 2.—Thursday at 10  
changed to Room 11 Eng. B.

**Steam Engineering.**

Section X.—Tuesday at 10 changed to  
Room 47 Eng. A; Thursday at 10  
changed to Room 47 Eng. A.

**Technical Electrical Measurements.**

Wednesday at 11 changed to Room 23  
Lowell; Thursday at 12 changed to  
Room 8 Eng. C; Friday at 9 changed to  
Room 24 Lowell; Friday at 12 changed  
to Room 24 Lowell; Monday at 9  
changed to Room 23 Lowell; Monday at  
11 changed to Room 24 Lowell; Tuesday  
at 11 changed to Room 23 Lowell;

Wednesday at 9 changed to Room 24  
Lowell.

WALTER HUMPHREYS,  
Registrar.

**FOURTH YEAR.**

February 11, 1910.

CHANGE OF ROOM ASSIGNMENTS.  
Hydraulic Engineering.

Section XI.—Monday at 10 changed  
to Room 42 Pierce; Thursday at 9  
changed to Room 47 Pierce; Saturday  
at 10 changed to Room 42 Pierce.

**Quantitative Analysis.**

Section IV., V., 1, 2.—Thursday at 10  
changed to Room 11 Eng. B.

WALTER HUMPHREYS,  
Registrar.

**NOTICES**

**HERTZ WAVES AND WIRELESS  
TELEGRAPHY.**

The first lecture will be given on  
Tuesday, February 15th in Room 22,  
Walker, at 4.10 p. m.

The course is open to students of the  
2d, 3d, 4th years without registration.  
There will be no examination.

WALTER HUMPHREYS,  
Registrar.

**GENERAL OPTIONS IN MODERN  
LANGUAGES.**

French Colloquium and French III.  
A will recite to Mr. Blachstein in Room  
22, Lowell Building, as follows:  
French Colloquium Thursdays from  
9-10, and Saturdays from 12-1.  
French III. A, Tuesdays from 9-10.

**DR. MANN'S CONFERENCES** which  
were so successfully undertaken last  
year, will be resumed to-morrow, Wed-  
nesday night, at 7.30, in Trinity Church,  
after the T. C. A. dinner. All inter-  
ested are welcome.

**1911 PROM.**

Juniors who wish to suggest music  
to be played at the Prom leave selec-  
tions at Cage before Wednesday, Feb.  
17.

**1912.**

Class meeting in Huntington Hall at  
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